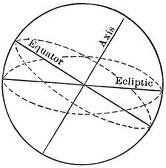
**[](http://www.google.com/imgres?imgurl=http://etc.usf.edu/clipart/30500/30593/axis_30593_md.gif&imgrefurl=http://etc.usf.edu/clipart/30500/30593/axis_30593.htm&usg=__HWIr5U1Kz13qsWLEF3EecUN3dr8=&h=353&w=350&sz=10&hl=en&start=15&zoom=1&tbnid=k9R7AmX8y9RH_M:&tbnh=153&tbnw=150&prev=/images%3Fq%3Daxis%26um%3D1%26hl%3Den%26safe%3Dactive%26sa%3DN%26biw%3D1259%26bih%3D627%26tbs%3Disch:1&um=1&itbs=1&iact=rc&dur=434&ei=SdbjTKTGB4a0lQeS5-jHDg&oei=L9bjTL_zLIL6lwfx_IGFDg&esq=5&page=2&ndsp=18&ved=1t:429,r:2,s:15&tx=120&ty=99)Video Lab: Revolution and the Axis of Earth**

**Directions:** Read over the following questions first. Then watch the video at this link: [**http://www.youtube.com/watch?v=taHTA7S\_JGk**](http://www.youtube.com/watch?v=taHTA7S_JGk)

After watching the video, or during, answer the questions.

1. Describe the axis of Earth in your own words.

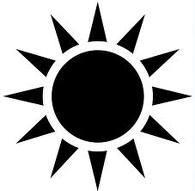
2. Explain the result of Earth’s tilted axis and revolution about the Sun.

3. What is the “overhead Sun”?

4. How do you think the amount of solar radiation received by an area would affect *that* area?

5. What are the approximate dates of the Vernal (Spring) Equinox? Describe the location of the overhead Sun during this time.

6. Diagram the NH **Spring Equinox**, including: North Pole, Arctic Circle, Axis, Tropic of Cancer, Equator, Tropic of Capricorn, Antarctic Circle, and South Pole, the length of daylight for the aforementioned locations, and the angle of the overhead Sun.



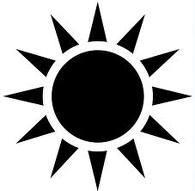
Earth

7. What does Spring mean in terms of day and night?

8. What are the approximate dates of the Summer Solstice? Describe the location of the overhead Sun during this time.

9. Diagram the NH **Summer Solstice**, including: North Pole, Arctic Circle, Axis, Tropic of Cancer, Equator, Tropic of Capricorn, Antarctic Circle, and South Pole, the length of daylight for the aforementioned locations, and the angle of the overhead Sun.

Earth

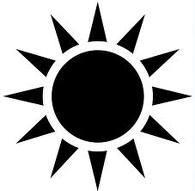


10. What does Summer mean in terms of day and night?

11. What are the approximate dates of the Autumnal Equinox? Describe the location of the overhead Sun during this time.

12. Diagram the NH **Autumnal Equinox**, including: North Pole, Arctic Circle, Axis, Tropic of Cancer, Equator, Tropic of Capricorn, Antarctic Circle, and South Pole, the length of daylight for the aforementioned locations, and the angle of the overhead Sun.

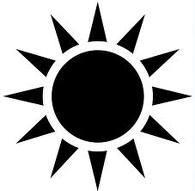
Earth



13. What does Autumn mean in terms of day and night?

14. What are the approximate dates of the Winter Solstice? Describe the location of the overhead Sun during this time.

15. Diagram the NH **Winter Solstice**, including: North Pole, Arctic Circle, Axis, Tropic of Cancer, Equator, Tropic of Capricorn, Antarctic Circle, and South Pole, the length of daylight for the aforementioned locations, and the angle of the overhead Sun.



Earth

16. What does Winter mean in terms of day and night?

17. Where are most of Earth’s dense jungles? Why does this make sense?

18. If you were very light-sensitive vampire, where would you want to live and why?

19. Why does is get cold in the winter and hot in the summer?